

DOUBLE TRANSPOSITION METHODS FOR MANIPULATING NUCLEIC ACIDS

Inventors: Igor Yu Goryshin/Todd A. Naumann/William S. Reznikoff

Application No.:

Docket Number: 960296.;97541

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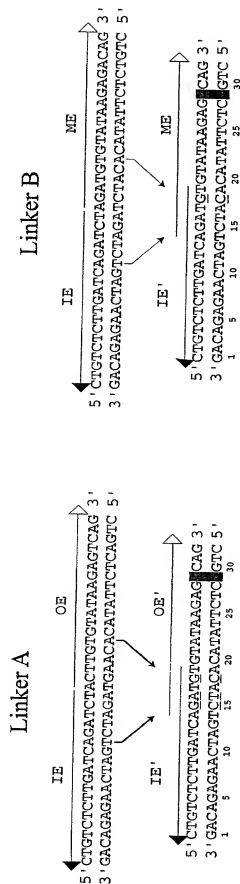


FIG 1

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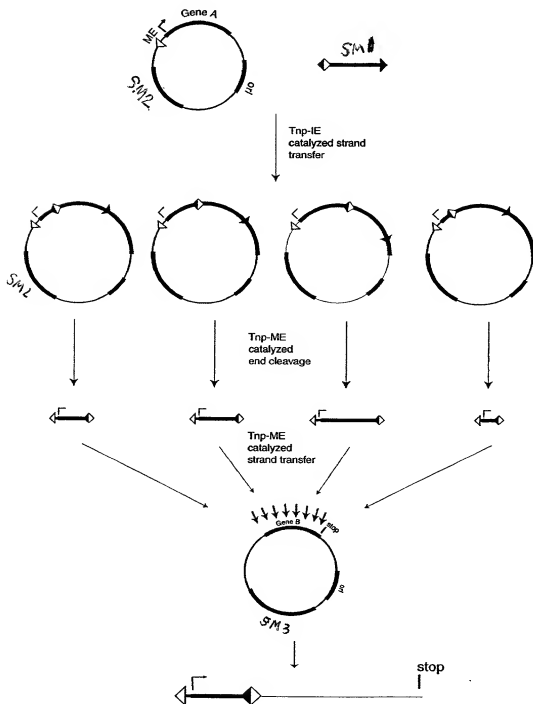


FIG 2

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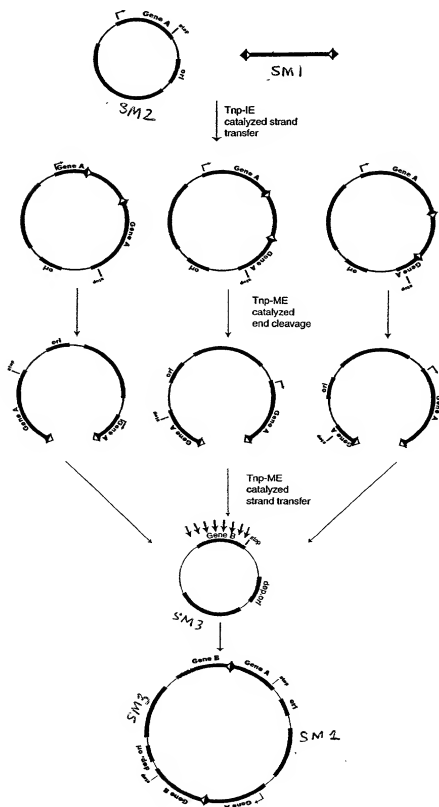


FIG 3

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Chromosomal insertion of transposon via co-delivery.

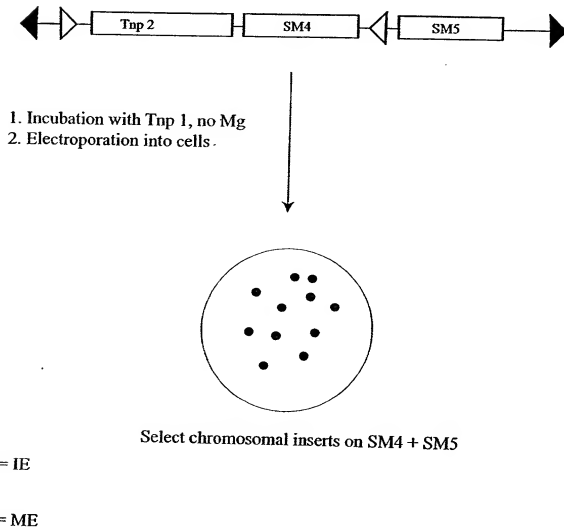


FIG 4

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In vivo transposition.

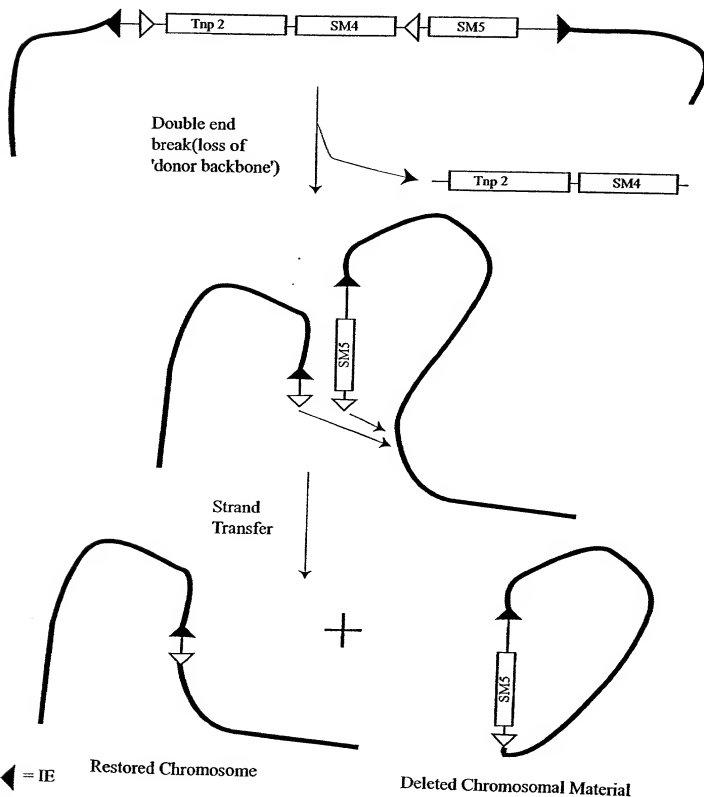


FIG 5

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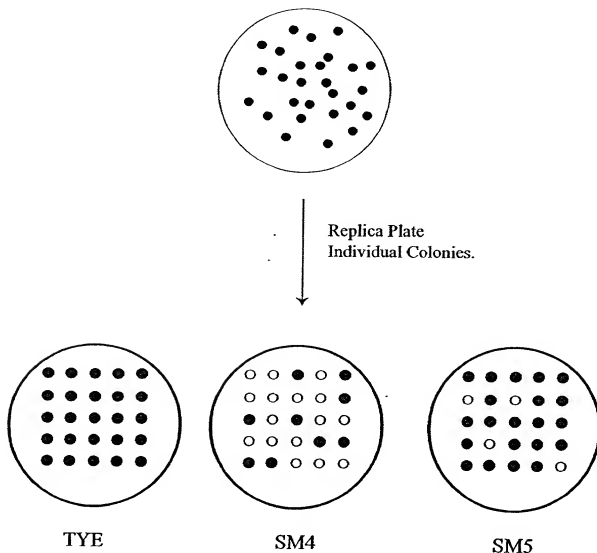
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Screen for chromosomal deletions.



$SM4^r + SM5^r = \text{No transposition}$

$SM4^s + SM5^r = \text{Transposition event: Inversion or 'wrong' deletion}$

$SM4^s + SM5^s = \text{Transposition event: Deletion}$

FIG 6

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Direct cloning of chromosomal DNA.

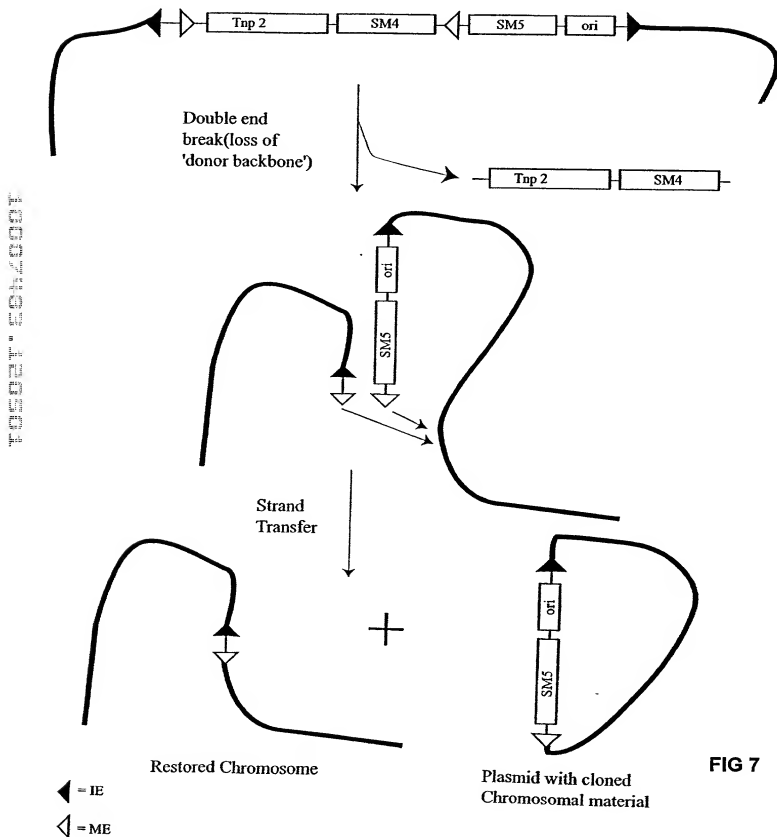


FIG 7

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Insertion of DNA and removal of drug marker.

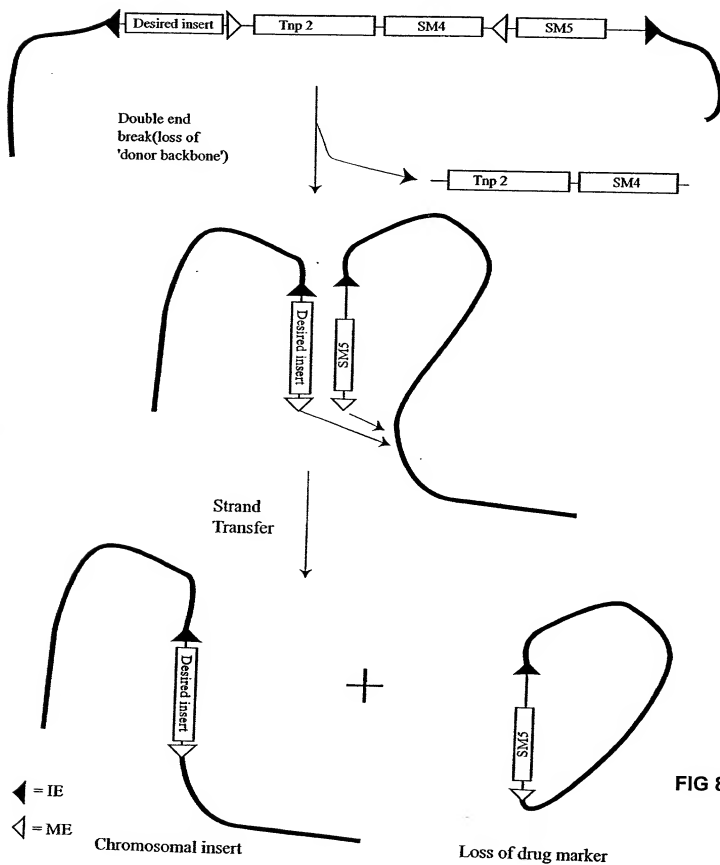


FIG 8

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FIG 9

Tn5 Del7



Tn5 Del8



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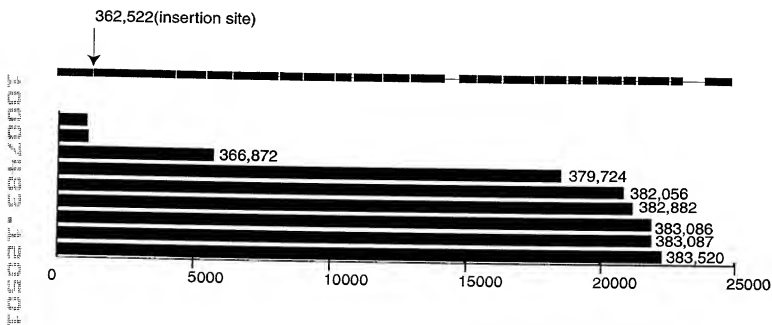


FIG 10